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FILE 'HOME' ENTERED AT 07:00:22 ON 14 MAR 2006

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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```
=> s cumene/ti
          2174 CUMENE/TI
            22 CUMENES/TI
L1        2196 CUMENE/TI
                 ((CUMENE OR CUMENES)/TI)

=> s hydroperoxide/ti
          5524 HYDROPEROXIDE/TI
          3333 HYDROPEROXIDES/TI
L2        8723 HYDROPEROXIDE/TI
                 ((HYDROPEROXIDE OR HYDROPEROXIDES)/TI)

=> s l1 and l2
L3         815 L1 AND L2

=> s phenol/ti and acetone/ti
         30474 PHENOL/TI
         17914 PHENOLS/TI
         47887 PHENOL/TI
                 ((PHENOL OR PHENOLS)/TI)
         15086 ACETONE/TI
            96 ACETONES/TI
         15181 ACETONE/TI
                 ((ACETONE OR ACETONES)/TI)
L4         414 PHENOL/TI AND ACETONE/TI

=> s l3 and l4
L5          62 L3 AND L4
```

```
=> s catalytic/ti
        118394 CATALYTIC/TI
             3 CATALYTICS/TI
L6      118397 CATALYTIC/TI
                 ((CATALYTIC OR CATALYTICS)/TI)

=> s l5 and l6
L7           3 L5 AND L6

=> s decomposition/t
'T' IS NOT A VALID FIELD CODE
L8           0 DECOMPOSITION/T

=> s decomposition/ti
         80764 DECOMPOSITION/TI
           972 DECOMPOSITIONS/TI
         81705 DECOMPOSITION/TI
                 ((DECOMPOSITION OR DECOMPOSITIONS)/TI)
            81 DECOMPN/TI
L9       81782 DECOMPOSITION/TI
                 ((DECOMPOSITION OR DECOMPN)/TI)

=> s l7 and l9
L10          3 L7 AND L9

=> d bib abs 1-3

L10  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2001:651046  CAPLUS
DN   136:8028
TI   Catalytic decomposition of cumene
     hydroperoxide into phenol and acetone
AU   Selvin, Rosilda; Rajarajeswari, G. R.; Selva Roselin, L.; Sadasivam, V.;
     Sivasankar, B.; Rengaraj, K.
CS   Department of Chemistry, Anna University, Chennai, 600025, India
SO   Applied Catalysis, A: General (2001), 219(1-2), 125-129
     CODEN: ACAGE4; ISSN: 0926-860X
PB   Elsevier Science B.V.
DT   Journal
LA   English
AB   The decomposition of cumene hydroperoxide (CHP) was carried out in a batch
     reactor over supported solid heteropolyacid catalysts on H2SO4 activated
     montmorillonite K10 (M-K10) and metal-ion-exchanged M-K10, at
     30-60°. The metal catalyst supports were prepared by wet
     impregnation of M-K10 with metal chloride solns. (Zn, Fe, La, Ce).
     Acid-activated supported dodecatungstophosphoric acid (DTPA) showed 100%
     conversion within 5 min at 30°; the products were phenol and
     acetone. The correlation of catalytic activity with acidity revealed that
     both Lewis and Bronsted acid sites promote the decomposition The reaction was
     first-order with respect to CHP. The heterogeneous catalysts may be used
     instead of sulfuric acid for selective decomposition of CHP into phenol and
     acetone with 100% conversion.
RE.CNT  12    THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10  ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1984:50746  CAPLUS
DN   100:50746
TI   Phenol-acetone process.  Acetone reactions
     in the medium of catalytic decomposition of industrial
     grade cumene hydroperoxide
AU   Rivolta, Luigi; Battiston, Giancarlo; D'Alfonso, Giuseppe
CS   Cent. Ric., Montedipe S.p.A., Bollate, Italy
SO   Chimica e l'Industria (Milan, Italy) (1983), 65(9), 545-8
```

CODEN: CINMAB; ISSN: 0009-4315
DT Journal
LA English
AB In the title study at 60-100°, kinetic information on acetone self-condensation reactions were interpreted according to a simplified scheme in which the rate-determining step was diacetone alc. production Kinetic consts. were correlated to both reaction conditions and catalyst (H2SO4) concentration

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1961:37920 CAPLUS
DN 55:37920
OREF 55:7357f-g
TI **Phenol and acetone by catalytic decomposition of cumene hydroperoxide**
IN Teichert, Andrzej; Leszczynski, Zbigniew; Radoniewicz, Hanna
PA Instytut Chemii Ogolnej
DT Patent
LA Unavailable
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI PL 42393		19590930	PL	

AB Decomposition of cumene hydroperoxide is effected in the presence of strongly acid cation exchange resins, preferably activated by saturation with Me2CO. The method exceeds others in yield by 5-7%, minimizes corrosion hazards, and gives the highest output/volume unit of apparatus Cf. abstract from Zbigniew Leszczy.acte.nski in CA 52, 13664f.

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.76	21.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 10, 2006 (20060310/UP).

=> s l10
'TI' IS NOT A VALID FIELD CODE
0 CUMENE/TI
0 HYDROPEROXIDE/TI
0 PHENOL/TI
0 ACETONE/TI
0 CATALYTIC/TI
0 DECOMPOSITION/TI
L11 0 L7 AND L9

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	22.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

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                                                        ENTRY     SESSION
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=> s l10
L12           3 L7 AND L9

=> s two and zone
        2144922 TWO
             37 TWOS
        2144951 TWO
                  (TWO OR TWOS)
         282059 ZONE
         103593 ZONES
         348434 ZONE
                  (ZONE OR ZONES)
L13       39123 TWO AND ZONE

=> s l10 and l12
L14           3 L10 AND L12

=> s reactor
         407193 REACTOR
         240687 REACTORS
L15      456654 REACTOR
                  (REACTOR OR REACTORS)

=> s l14 and l15
L16           1 L14 AND L15

=> d bib abs

L16  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2001:651046  CAPLUS
DN   136:8028
TI   Catalytic decomposition of cumene
     hydroperoxide into phenol and acetone
AU   Selvin, Rosilda; Rajarajeswari, G. R.; Selva Roselin, L.; Sadasivam, V.;
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CS   Department of Chemistry, Anna University, Chennai, 600025, India
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     CODEN: ACAGE4; ISSN: 0926-860X
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RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
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=> LOG Y

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FULL ESTIMATED COST	9.97	32.84

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FILE 'HOME' ENTERED AT 12:48:21 ON 14 MAR 2006

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L1 0 3037052/PN

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FULL ESTIMATED COST	2.41	2.62

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L1 0 0367408/PN

=> s 3037052
L2 0 3037052

=> s 3037052/pn
L3 0 3037052/PN

=>

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FULL ESTIMATED COST	6.31	6.52

STN INTERNATIONAL LOGOFF AT 08:42:52 ON 16 MAR 2006